

Physics 12th Public Exam Question Paper 2013

JUNE – 2013
PHYSICS

Time Allowed: 3 Hours

PART - I

Maximum Marks: 150
30 x 1 = 30

Note: i) Answer all the questions.

ii) Choose and write the correct answer.

iii) Each question carries one mark.

- In the forward bias characteristic curve, a diode appears as:
(a) a high resistance (b) a capacitor
(c) an OFF switch (d) an ON switch
- Which of the following devices does not allow dc to pass through?
(a) resistor (b) capacitor (c) inductor (d) all of the above
- $\frac{e}{m}$ of cathode rays:
(a) depends upon the nature of the cathode
(b) depends on the nature of the anode
(c) nature of the gas atoms present in the discharge tube
(d) independent of all the above
- In an X-ray tube, the intensity of the emitted X-ray beam is increased by
(a) increasing the filament current (b) decreasing the filament current
(c) increasing the target potential (d) decreasing the target potential
- In an electromagnetic wave, the phase difference between electric field E and magnetic field B is
(a) $\frac{\pi}{4}$ (b) $\frac{\pi}{2}$ (c) π (d) zero

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- The wavelength of the matter wave is independent of:
(a) mass (b) velocity (c) momentum (d) charge

- The following arrangement performs the logic function of gate.



- (a) AND (b) OR (c) NAND (d) EXOR
- In CE single stage amplifier, the voltage gain at mid frequency is 10. The voltage gain at upper cut off frequency is ::
(a) 10 (b) 14.14 (c) 7.07 (d) 20
- The time taken by the radioactive element to reduce to $1/e$ times is ::
(a) $\frac{\text{half life}}{2}$ (b) mean life (c) half life (d) twice the mean life

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